ABSTRACT

Many technological advances eventually led to shift to the use of human labor and those were replaced by machinery or other production equipment. In Dick Chrome Yogyakarta, all work mostly is done manually by human labor is in the process of refining, that workers should feel comfortable in doing the job. If workers could feel the discomfort already in the works, this will affect the time refining process (work) product that results in the delay of orders from consumers and reduced productivity.

To avoid delays in completing orders and to provide comfort to workers in the work, then it's all done by doing analysis of the characteristics of ergonomic factors and seek the optimal combination of factors characteristic of existing ergonomics. If workers feel comfortable in working, the expectation is able to accelerate a process of refining the product. This research uses factorial experimental design factor 3^3 *with factors working attitude, lighting, and temperature.*

The results of this research show that factors such as the characteristics of ergonomics work attitude, lighting, and temperature influence the acceleration of time refining the product. The combination of optimum ergonomic characteristics that most affect the acceleration of time refining process are factors working attitude with level factors sit with footrests, lighting factors with level of 150 lux factor and temperature factors as the extent of factor 26 ° C.

Keywords : *Characteristics of ergonomics, a smoothing process, factorial experimental design.*